

Reference 7

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **62075270 A**(43) Date of publication of application: **87.04.87**

(51) Int. Cl.

**G01P 3/486
G11B 19/28**(21) Application number: **60214546**(71) Applicant: **TOSHIBA CORP**(22) Date of filing: **30.09.85**(72) Inventor: **ECHIGO TOSHIYUKI**(54) **DISK ROTATION DETECTING DEVICE**

(57) Abstract:

PURPOSE: To detect the rotating speed of a disk stably and accurately by forming a pattern for disk rotation detection at the peripheral edge of the disk, etc., and detecting the pattern and generating an electric signal of frequency corresponding to the rotating speed of the disk.

CONSTITUTION: The FG pattern 13 which has the 1st part 14a whose light reflection factor is large and the 2nd part 14b whose light reflection factor is small as one period is formed at the peripheral edge part of the disk 11. When the disk 14 is rotated, light beams reflected by the parts 14a and 14b of the pattern 14 are photodetected alternately by a photodetection part, so the photodetection part outputs the pulse signal of frequency corresponding to the rotating speed of the disk 11, so that the rotating speed of the disk 11 is detected. Thus, the rotating speed of the disk 11 is detected stably and accurately.

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